ECO137 Quiz 4 Dec. 8. 2017

ID

Name:

1. For
$$f(x) = \sqrt{20 + x}$$
,

(a) Find Quadratic Approximation about x= 1

(b) For x = 1.1, derive (i) Actual value and (ii) Quadratic Approximated value. Report up to 5 digits after the decimal point (0.00001).

2. For $P = \sqrt{5000/Q}$, find price elasticity of demand.

3. Find
$$\lim_{x \to 0} \frac{e^{5xt} - 1 - 5xt}{x^2}$$
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